IN THE CLAIMS:

The current claims follow. For claims not marked as amended in this response, any

difference in the claims below and the previous state of the claims is unintentional and in the nature

of a typographical error.

1-23. (Cancelled)

24. (Previously Presented) A method for interfacing with multiple surfaces within a computer-aided

drawing environment, comprising:

using a computer system, determining that a first surface of a drawing comprises a first

plurality of curves constituting a P x 1 surface condition, a P x 1 surface condition being defined by a

number of first curves equal to P and only one second curve, wherein P is an integer greater than

zero;

using the computer system, determining that a second surface of a drawing comprises a

second plurality of curves constituting a first N x M surface condition, a first N x M surface

condition being defined by a number of third curves equal to N and a number of fourth curves equal

to M, wherein N and M are integers greater than one;

using the computer system, converting the P x 1 surface condition of the first surface into a

second N x M surface condition to match the N x M surface condition of the second surface, the

second N x M surface condition being defined by a number of fifth curves equal to N and a number

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of sixth curves equal to M, wherein Nand M are integers greater than one;

using the computer system, constructing an N x M surface under the second N x M surface

condition; and

modifying the second N x M surface to edit a drawing.

25. (Previously Presented) The method of Claim 24, wherein converting the P x 1 surface condition

of the first surface into the second N x M surface condition further comprises generating at least one

auxiliary curve that is substantially continuous with any adjoining surfaces of the first surface and

compatible with the number of first curves and the only one second curve that define the P x 1

surface condition.

26. (Previously Presented) The method of Claim 24, wherein converting the P x 1 surface condition

of the first surface into the second N x M surface condition further comprises replacing the P x 1

surface condition with the second $N \times M$ surface condition.

27. (Previously Presented) The method of Claim 24, wherein converting the P x 1 surface condition

of the first surface into the second N x M surface condition further comprises generating an N x M

surface condition defined by the third and fourth curves such that the third and fourth curves are

defined by mathematical equations all having an order no greater than mathematical equations

defining the first and second curves.

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28. (Previously Presented) The method of Claim 24, and further comprising processing the first

curves and the second curve so that each one of the first curves and the second curve are compatible

with each other of the first curves and the second curve.

29. (Previously Presented) The method of Claim 24, and further comprising editing the drawing, at

least in part, by modifying additional surfaces having the first N x M surface condition of the second

surface.

30. (Previously Presented) A method for interfacing with a surface within a computer-aided drawing

environment, comprising:

using a computing system, determining that a first surface of a drawing comprises a first

plurality of curves constituting a P x 1 surface condition, a P x 1 surface condition being defined by a

number of first curves equal to P and only one second curve, wherein P is an integer greater than

one;

in response to determining that the plurality of curves constitute a Px 1 surface condition and

using the computing system, converting the P x 1 surface condition into an N x M surface condition

by generating at least one auxiliary curve that is substantially continuous with any adjoining surfaces

of the first surface and compatible with the number of first curves and the only one second curve that

define the P x 1 surface condition, the N x M surface condition being defined by a number of third

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curves equal to N and a number of fourth curves equal to M, wherein N and M are integers greater

than one, wherein each of the third and fourth curves are of the same mathematical degree as the first

and second curves to be compatible with the first and second curves:

using the computing system, constructing an N x M surface under the N x M

surface condition; and

modifying the N x M surface to edit a drawing.

31. (Previously Presented) The method of Claim 30, wherein converting the P x 1 surface condition

into the N x M surface condition further comprises replacing the P x 1 surface condition with the N x

M surface condition.

32. (Previously Presented) The method of Claim 30, wherein converting the P x 1 surface condition

into the N x M surface condition further comprises generating an N x M surface condition defined by

the third and fourth curves such that the third and fourth curves are defined by mathematical

equations all having an order no greater than mathematical equations defining the first and second

curves.

33. (Previously Presented) The method of Claim 30, further comprising processing the first curves

and the second curve so that each one of the first curves and the second curve are compatible with

each other of the first curves and the second curve.

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 $34. \ (Previously\ Presented)\ The\ method\ of\ Claim\ 30, further\ comprising\ editing\ the\ drawing, at\ least$

in part, by modifying additional surfaces having the first N x M surface condition.

35. (Previously Presented) An apparatus for interfacing with a surface within a computer-aided

drawing environment, comprising:

a software program stored on a computer readable medium and operable, when executed on a

processor, to:

determine that a first surface of a drawing comprises a first plurality of

curves constituting a P x 1 surface condition, the P x 1 surface condition being defined by

a number of first curves equal to P and only one second curve, wherein P is an

integer greater than zero;

determine that a second surface of the drawing comprises a second plurality

of curves constituting a first N x M surface condition, a first N x M surface

condition being defined by a number of third curves equal to N and a number of fourth

curves equal to M, wherein N and M are integers greater than one;

convert the P x 1 surface condition of the first surface into a second N x M surface

condition to match the N x M surface condition of the second surface, the second N x M surface

condition being defined by a number of fifth curves equal to N and a number of sixth curves equal to

M, wherein N and M are integers greater than one:

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generate an N x M surface under the second N x M surface condition; and

modify the generated N x M surface.

36. (Previously Presented) The apparatus of Claim 35, wherein the software program is further

operable to convert the P x 1 surface condition of the first surface into the second N x M surface

condition by generating at least one auxiliary curve that is substantially continuous with any

adjoining surfaces of the first surface and compatible with the number of first curves and the only

one second curve that define the P x 1 surface condition.

37. (Previously Presented) The apparatus of Claim 35, wherein the software program is further

operable to replace the P x 1 surface condition with the second N x M surface condition.

38. (Previously Presented) The apparatus of Claim 35, wherein the software program is further

operable to convert the P x 1 surface condition of the first surface into the second N x M surface

condition by generating an N x M surface condition defined by the third and fourth curves such that

the third and fourth curves are defined by mathematical equations all having an order no greater than

mathematical equations defining the first and second curves.

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39. (Previously Presented) The apparatus of Claim 35, wherein the software program is further

operable to process the first curves and the second curve so that each one of the first curves and the

second curve are compatible with each other of the first curves and the second curve.

40. (Previously Presented) The apparatus of Claim 35, wherein the software program is further

operable to modify additional surfaces having the first N x M surface condition.

41. (Previously Presented) A system for interfacing with a surface within a computer-aided drawing

environment, comprising:

a computer system having a display unit and an input device;

a computer readable medium coupled to the computer system, the computer readable medium

comprising a software program operable to:

determine that a first surface of a drawing comprises a first plurality of

curves constituting a P x 1 surface condition, the P x 1 surface condition being defined by

a number of first curves equal to P and only one second curve, wherein P is an

integer greater than one;

convert the P x 1 surface condition of the first surface into a N x M

surface condition, the N x M surface condition being defined by a number of third

curves equal to N and a number of fourth curves equal to M, wherein N and M are

integers greater than one, the third and fourth curves mathematically filling the space of

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the surface plane defined by the first curves and the only one second curve:

construct an N x M surface under the N x M surface condition; and

enable edits to the drawing, at least in part, by enabling modifications to

the constructed N x M surface.

42. (Previously Presented) The system of Claim 41, wherein the software program is further operable

to convert the P x 1 surface condition of the first surface into the N x M surface condition by

generating at least one auxiliary curve that is substantially continuous with any adjoining surfaces of

the first surface and compatible with the number of first curves and the only one second curve that

define the P x 1 surface condition.

43. (Previously Presented) The system of Claim 41, wherein the software program is further operable

to convert the P x 1 surface condition of the first surface into the N x M surface condition by

generating an N x M surface condition to replace the P x 1 surface condition.

44. (Previously Presented) The system of Claim 41, wherein the software program is further operable

to convert the P x 1 surface condition of the first surface into the N x M surface condition by

generating an N x M surface condition defined by the third and fourth curves such that the third and

fourth curves are defined by mathematical equations all having an order no greater than mathematical

equations defining the first and second curves.

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 $45. \ (Previously \ Presented) \ The \ system of \ Claim \ 41, wherein \ the \ software \ program \ is \ further \ operable$

to process the first curves and the second curve so that each one of the first curves and the second $\frac{1}{2}$

curve are compatible with each other of the first curves and the second curve.

46. (Previously Presented) The system of Claim 41, wherein the software program is further operable

to modify additional surfaces having the first N x M surface condition.

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